# *Prioritized Scope and Sequence*

The template below is designed to reflect the most common sequence of topics found in most algebra I curriculums and textbooks. Each school environment is different and collaborative teams of teachers are encouraged to add their own list of resources used to teach the lesson; therefore, t**he last two columns have been left blank**. Teacher teams should then reflect on how these lessons might be improved or enhanced. One session indicates a 45 minute class period. Schools will need to adapt these sessions to accommodate their individual class schedules. Teachers should then fill in the actual amount of time it takes to teach each lesson in the column below.

The lessons are coded by module number and lesson number. For example, M1 -1 means Module 1 – Lesson 1.

| Lesson | Topic | Standard (s) | Sessions (estimated) | Sessions (Actual) | Resources/Textbook Alignment |
|---|---|---|---|---|---|
| M1 - 1 | Writing & evaluating algebra expressions | EA-2.6 | 3 | | |
| M1 - 2 | The Real number line & operations with integers | EA-2.1 | 3 | | |
| M1 - 3 | Real number properties | EA-2.5 | 3 | | |
| M1 - 4 | Combining like terms | EA-2.7 | 3 | | |
| M1 - 5 | Operations with matrices | EA-2.9 | 4 | | |
| M2 - 1 | Solving linear equations | EA-4.7 | 6 | | |
| M2 - 2 | Solving literal equations | EA-3.7 | 4 | | |
| M2 - 3 | Applying proportional reasoning to solve problems | EA-3.8 | 3 | | |
| M2 - 4 | Direct & inverse variation | EA-3.6 | 3 | | |
| M3 - 1 | Graphing using a table of values | EA-5.1 | 4 | | |
| M3 - 2 | Representing linear equations in various forms | EA-4.6 | 4 | | |
| M3 - 3 | Determining slope using multiple representations | EA-5.6 | 3 | | |
| M3 - 4 | Understanding slope as a rate of change | EA-5.7 | 4 | | |

| Lesson | Topic | Standard (s) | Estimated sessions | Actual Sessions | Resources/Textbook Alignment |
|---|---|---|---|---|---|
| M3 - 5 | Graphing linear equations Using slope and y-intercept | EA - 5.3<br>EA - 5.1 | 3 | | |
| M3 - 6 | Examining the effect of changes on m and b on the graph of a linear function | EA - 5.2 | 5 | | |
| M3 - 7 | Graphing linear equations given a slope and a point | EA - 5.4 | 3 | | |
| M3 - 8 | Using x- and y-intercept to graph a line | EA - 5.5<br>EA - 5.1 | 4 | | |
| M4 – 1 | Classifying a relation as function or not a function | EA – 3.1 | 2 | | |
| M4 – 2 | Writing equations using function notation | EA – 3.2 | 2 | | |
| M4 – 3 | Evaluating a function for a given value | EA – 3.3 | 2 | | |
| M4 – 4 | Analyze a graph and determine the domain and range | EA – 3.4 | 2 | | |
| M4 – 5 | Graphing the parent functions | EA – 3.5 | 2 | | |
| M5 – 1 | Writing a linear equation given a slope and y-intercept | EA - 4.1 | 3 | | |
| M5 – 2 | Writing a linear equation given a slope and a point | EA - 4.2 | 4 | | |
| M5 – 3 | Writing a linear equation given two points | EA - 4.3 | 4 | | |
| M5 – 4 | Analyzing scatter plots to make predictions | EA -4.5 | 3 | | |
| M5 – 5 | Writing the equation of a trend line | EA - 4.4 | 3 | | |
| M5 – 6 | Write a linear equation given a problem situation | EA - 5.9 | 4 | | |
| M5 – 7 | Determine domain and range of linear functions | EA - 5.10 | 3 | | |
| M6 – 1 | Writing linear inequalities in problem situations | EA - 5.12 | 4 | | |
| M6 – 2 | Solving and graphing solutions to linear inequalities | EA - 4.8 | 4 | | |
| M7 – 1 | Writing systems of linear equations | EA - 5.11 | 4 | | |

| Lesson | Topic | Standard (s) | Estimated sessions | Actual Sessions | Resources/Textbook Alignment |
|---|---|---|---|---|---|
| M7 - 2 | Solving linear systems graphically | EA - 4.11 | 5 | | |
| M7 - 3 | Solving systems of linear equations algebraically | EA - 4.10 | 5 | | |
| M7 - 4 | Determining whether lines are parallel, perpendicular, or neither | EA - 5.8 | 5 | | |
| M8 - 1 | Law of exponents | EA - 2.2<br>EA - 2.7 | 4 | | |
| M8 - 2 | Multiplying polynomial expressions | EA - 2.7 | 5 | | |
| M8 - 3 | Scientific Notation | EA - 2.3 | 4 | | |
| M9 - 1 | The Effects of "a" in $y = ax^2$ | EA - 6.1 | 4 | | |
| M9 - 2 | The Effects of "c" on $y = x^2 + c$ | EA - 6.2 | 4 | | |
| M9 - 3 | Determining a quadratic equation from the graph | EA - 6.3 | 4 | | |
| M9 - 4 | Factoring methods | EA - 2.8 | 10 | | |
| M9 - 5 | Solving quadratic equations by factoring | EA - 6.4 | 4 | | |
| M9 – 6 | Estimating solutions to a quadratic from the graph | EA - 6.5 | 3 | | |
| M9 – 7 | Finding domain of a quadratic function in problem situations | EA - 6.6 | 3 | | |